Randy L. Hoffman, et al.

( ) under 37 CFR 1.97 (d) together with a:

( ) Statement under 37 CFR 1.97(e)(1) or (2), and ( ) a \$180.00 fee set forth in 37 CFR 1.17(p).

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Inventor(s):

Filing Date:

Application No.:

#### PATENT APPLICATION

ATTORNEY DOCKET NO. 200316548-1

Confirmation No.:

**Group Art Unit:** 

Examiner:

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| Title:       | SEMICONDUCTOR DEVICE  |
| PO Box 14    | ner for Patents<br>50<br>VA 22313-1450  |
|              | INFORMATION DISCLOSURE STATEMENT  |
| Sir:         |   |
| This Inf     | ormation Disclosure Statement is submitted:   |
| ( <b>X</b> ) | under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last) |
| ( )          | under 37 CFR 1.97(c) together with either a: ( ) Statement under 37 CFR 1.97(e), or ( ) a \$180.00 fee under 37 CFR 1.17(p), or   |

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

- (x) Applicant(s) submit herewith Form PTO 1449 Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- ( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EV372029214US

Date of Deposit 03/12/2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA

Bv

Typed Name: Sarah L. Reinhard

Respectfully submitted,

Randy L. Hoffman, et/al

Edward J. Brooks III

Attorney/Agent for Applicant(s)

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Reg. No. 40,925

Date: 03/12/2004

Telephone No.: (612) 659-9340

Sheet 1 of 6

| F                   | ORM   | PTO-1449                          |  |                       | ATTY. DOCKET NO.                              | •                  | APPLICATION NO.   | CONFIRMATION                  | NO.                      |
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|                     | 1A    | 5,744,864                         | 08/28/1998                                 | Cil                   | lessen, et al.                                |                    |   |                               |                          |
|                     | 1B    | 2003/0047785                      | 03/13/2003                                 | Ka                    | wasaki, et al.                                |                    |   |                               |                          |
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|                     | 1D    | 2003/0218221                      | 11/27/2003                                 | W                     | ager, III, et al.                             |                    |   |                               |                          |
|                     | 1E    | 2003/0218222                      | 11/27/2003                                 | W                     | ager, III, et al.                             |                    |   |                               |                          |
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|                     | 1L    | WO 97/06544                       | 02/20/1997                                 | Cilles                | sen, et al.                                   |                    |   |                               | _                        |
|                     | 1 M   | EP1134811                         | 06/19/2001                                 | Kawa                  | saki, et al.                                  |                    |   |                               |                          |
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|                     | 16    | Carcia, P.F., e<br>Applied Physic | et al., "Transparer<br>cs Letters, Vol. 82 | nt ZnO t<br>2, No. 7  | hin-film transistor fa<br>, pp. 1117-1119 (Fo | abricate<br>ebruar | ed by rf magnetror<br>y 17, 2003).                          | n sputtering",                |                          |
|                     | 15    | Carcia, P.F., e<br>Proc., Vol. 76 | et al., "ZnO Thin F<br>9, pp. H72.1-H72    | Film Trai<br>2.6 (200 | nsistors for Flexible<br>03).                 | Electro            | onics", Mat. Res. S   | Soc. Symp.                    |                          |
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Sheet 2 of 6

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|                   | 3M<br>3N<br>3O<br>3P             | Hoffman, R.L., 82, No. 5, pp.  Masuda, Satos and their electi (February 1, 20) | et al., "ZnO-base<br>733-735 (Februar<br>hi, et al., "Transpical properties", J<br>2003). | d transpay 3, 2000<br>arent thi<br>ournal o  | arent thin-film trans<br>03).   | Pertinosistors sing Z         | ent Pages, etc.) ", Applied Physicano as an active condition of the condit | s Letters, Vol.                        |              |
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|                    | 45      | Prins, M. W. J<br>No. 25, pp. 36     | ., et al., "A ferroe<br>50-3652 (June 17  | lectric tr<br>7, 1996) | ansparent thin-film                          | transistor", Appl. Phys. Lett., Vol. 68                           | <u>,</u>                     |
|                    |         |                                      |   |                        |  |   |                              |
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|                     | 5R     | Uneno, K., et a<br>Physics Letters                                | I. "Field-effect tra<br>, Vol. 83, No. 9, <sub>I</sub>          | nsistor<br>op. 175 | on SrTiO3 with spur<br>55-1757 (September                               | ttered .             | Al2O3 gate insulator", Appl<br>03).                         | ied                               |
|                     | 58     | channel, a poss   | irgen, et al., "An i<br>sible new gas sens<br>p. 471-474 (Septe | sor dev            | rice" The 11th Europ  | nsistor u<br>pean Co | using SnO2 as semiconducti<br>onference on Solid State      | ing                               |
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|                    | 6D                   |  |   |                  |   |                            |   |                                    |                                    |
|                    | 6E                   |  |   |                  |   |                            |   |                                    | <u>_</u>                           |
| - 1                | 6F                   |  |   |                  |   |                            | •   |                                    |                                    |
| (                  | 6G                   |  |   |                  |   |                            |   |                                    |                                    |
|                    | 6Н                   |  |   |                  |   |                            |   |                                    |                                    |
|                    | 61                   |  |   |                  |   |                            |   |                                    |                                    |
| (                  | 6J                   |  |   |                  |   |                            |   |                                    |                                    |
|                    | 6K.                  |  |   |                  |   |                            |   |                                    | <del></del>                        |
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